

**PATENT COOPERATION TREATY**  
**PCT**

**INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>2050030KC</b>	<div style="display: flex; justify-content: space-between;"><div><b>FOR FURTHER ACTION</b></div><div>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</div></div>	
International application No. <b>PCT/SG2005/000061</b>	International filing date ( <i>day/month/year</i> ) <b>1 March 2005</b>	(Earliest) Priority Date ( <i>day/month/year</i> ) <b>15 March 2004</b>
Applicant <b>TINGGI TECHNOLOGIES PRIVATE LIMITED et al</b>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of **3** sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box No. II).

3. ☐ Unity of invention is lacking (See Box No. III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. **8**

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SG2005/000061

## A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. <sup>7</sup>: H01L 33/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

DWPI and JAPIO: LED, light emitting diode, H01L 33/00, reflect, layer, film, contact, electrode, ohmic, reflect, conduct, metal, epilayer, epitaxial, roughen, remove, texture

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2001/047039 A (LUMILEDS LIGHTING US LLC) 28 June 2001	
A	US 6 627 921 B (WONG et al) 30 September 2003	
E,A	US 6 821 804 B (THIBEAULT et al) 23 November 2004	
E,A	WO 2004/102686 A (CREE INC) 25 November 2004	
A	Patent Abstracts of Japan, JP 2001-168387 A (TOYODA GOSEI CO LTD) 22 June 2001	



Further documents are listed in the continuation of Box C



See patent family annex

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;"

document member of the same patent family

Date of the actual completion of the international search

9 May 2005

Date of mailing of the international search report

12 MAY 2005

Name and mailing address of the ISA/AU

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/SG2005/000061**

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
WO	2001/47039	AU	27389/01	DE	102 13 701	EP	1 161 772
		JP	2001-237458	JP	2002-335014	US	6 514 782
		US	6 573 537				
US	6 627 921	JP	2002076523	US	6 562 648	US	2003122141
US	6 821 804	AU	17905/01	AU	41391/01	CA	2 393 007
		CA	2393081	CN	1402880	CN	1423842
		EP	1 234 334	EP	1 234 344	US	6 410 942
		US	6 657 236	US	2004041164	WO	2001/41219
		WO	2001/41225				
WO	2004/102686	US	2005029533				
JP	2001-168387	JP	2001-168386	US	6 531 719	US	6 623 998
		US	2001050376	US	2003085411		
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.							
END OF ANNEX							

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		US	6 657 236	US	2004041164	WO	2001/41219
		WO	2001/41225				
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